

Detailed Contents

Each chapter contains different exercises which include the following:

- Multiple Choice Questions
- Let's Evaluate (long and short calculations)
- Values and Life skills
- Exemplar Problems
- Solve Mentally (True or False/Fill in the Blanks/Answer in One Word or a Line)
- Thinking Skills
- NCERT Textbook Questions

Chapter	Content	Tasks to Perform
1. Knowing Our Numbers	Natural and Whole Numbers, Indian and International System of Numeration, Face Value and Place Value, Comparison of Numbers, Standard Units of Measurement, Estimation, Brackets, Roman Numerals	<ul style="list-style-type: none"> • Group Activity (Forming 5-digit numbers) <ul style="list-style-type: none"> — Team Spirit, Thinking Skills
2. Whole Numbers	Successor and Predecessor, Addition, Subtraction and Multiplication of Whole Numbers on a Number Line, Properties of Whole Numbers, Division Algorithm, Patterns	<ul style="list-style-type: none"> • Reason It Out! <ul style="list-style-type: none"> — Thinking Skills, Logical Reasoning • Quiz <ul style="list-style-type: none"> — Conceptual Understanding, Thinking Skills
3. Playing with Numbers	Factors and Their Properties, Multiples and Their Properties, Types of Numbers, Sieve of Eratosthenes, Tests of Divisibility, Common Factors and Multiples, Co-prime Numbers, Some Properties of Divisibility, Prime Factorization, Highest Common Factor (HCF), Lowest Common Multiple (LCM)	<ul style="list-style-type: none"> • Maths Lab Activity (Finding factors of a number) <ul style="list-style-type: none"> — Observation Skills, Conceptual Understanding • Maths Lab Activity (Worksheet) <ul style="list-style-type: none"> — Conceptual Understanding, Thinking Skills • Reason It Out! <ul style="list-style-type: none"> — Reasoning, Analysis
4. Basic Geometric Concepts	Point, Line and Line Segment, Intersecting Lines, Parallel Lines, Collinear Points, Concurrent Lines, Distance Between Two Parallel Lines, Ray and Its Properties, Plane, Open and Closed Figures, Polygons, Angle, Triangle, Quadrilateral, Circle (chord, secant, arc, segment, circumference, sector, semicircle and semicircular region, concentric circles)	<ul style="list-style-type: none"> • Maths Lab Activity (Lines passing through given points) <ul style="list-style-type: none"> — Observation Skills, Application of Concepts • Maths Lab Activity (Understanding a circle and its properties) <ul style="list-style-type: none"> — Learning Skills, Conceptual Understanding
5. Understanding Elementary Shapes	Line Segment and Their Comparison, Magnitude of an Angle, Comparison of Angles, Special Angles, Different Types of Angles, Measuring an Angle by a Protractor, Perpendicular Lines, Classification of Triangles, Types of Quadrilaterals, Polygons, Three-Dimensional Shapes	<ul style="list-style-type: none"> • Maths Lab Activity (Understanding a rhombus and its properties) <ul style="list-style-type: none"> — Observation Skills, Conceptual Understanding, Deductive Reasoning, Interpretation
6. Integers	Integers and Their Representation on a Number Line, Ordering of Integers, Absolute Value of an Integer, Addition and Subtraction of Integers on a Number Line	<ul style="list-style-type: none"> • Maths Lab Activity (Addition of integers) <ul style="list-style-type: none"> — Conceptual Understanding • Problems Related to Thinking Skills, <ul style="list-style-type: none"> — Thinking, Problem Solving
7. Fractions	Representation of Fractions on a Number Line, Proper, Improper and Mixed Fractions, Changing an Improper Fraction into a Mixed Fraction, Changing a Mixed Fraction into an Improper Fraction, Equivalent Fractions, Simplest Form of a Fraction, Like and Unlike Fractions, Comparison of Fractions, Addition and Subtraction of Fractions	<ul style="list-style-type: none"> • Problems Related to Thinking Skills <ul style="list-style-type: none"> — Thinking, Problem Solving • Maths Lab Activity (Addition of like fractions) <ul style="list-style-type: none"> — Conceptual Understanding, Verification

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Chapter	Content	Tasks to Perform
8. Decimals	Tenths, Representation of Decimals on a Number Line, Converting a Fraction into a Decimal, Converting a Decimal into a Fraction, Hundredths, Decimal Places, Like and Unlike Decimals, Comparison of Decimals, Addition of Decimals, Using Decimals in Real Life, Subtraction of Decimals	<ul style="list-style-type: none"> • Maths Lab Activity (Understanding the concept of bigger and smaller decimals) <ul style="list-style-type: none"> — Conceptual Understanding, Logical Thinking • Maths Lab Activity (Decimals addition) <ul style="list-style-type: none"> — Observation, Conceptual Understanding, Verification • Reason It Out! <ul style="list-style-type: none"> — Reasoning, Application of Concepts
9. Data Handling	Collection and Organization of Data, Types of Data, Pictorial Representation of Data, Bar Graphs	<ul style="list-style-type: none"> • Group Activity (Conducting a survey) <ul style="list-style-type: none"> — Team Spirit, Data Handling, Presentation, Analysis
10. Mensuration	Perimeter, Perimeter of Polygons, Area, Area of Polygons (Rectangle and Square)	<ul style="list-style-type: none"> • Problems Related to Observation Skills <ul style="list-style-type: none"> — Observation Skills, Conceptual Understanding • Maths Lab Activity (Finding area of irregular figures) <ul style="list-style-type: none"> — Learning Skills, Interpretation • Maths Lab Activity (Finding area of a rectilinear figure) <ul style="list-style-type: none"> — Learning Skills, Observation, Evaluation
11. Introduction to Algebra	Patterns, Use of Variables, Algebraic Expression and Its Formation, Equations	<ul style="list-style-type: none"> • Riddles <ul style="list-style-type: none"> — Logical Thinking, Reasoning
12. Ratio, Proportion and Unitary Method	Ratio, Simplest Form of Ratio, Equivalent Ratios, Dividing a Number in the Given Ratio, Comparison of Ratios, Proportion, Unitary Method	<ul style="list-style-type: none"> • Crossword Puzzle <ul style="list-style-type: none"> — Application of Knowledge, Thinking Skills
13. Symmetry	Line of Symmetry, Reflection and Symmetry	<ul style="list-style-type: none"> • Maths Lab Activity (Making symmetrical figures) <ul style="list-style-type: none"> — Creativity, Accuracy • Maths Lab Activity (Finding lines of symmetry) <ul style="list-style-type: none"> — Application of Concepts • Maths Lab Activity (Fun with symmetry) <ul style="list-style-type: none"> — Creative Thinking, Analytical Thinking
14. Practical Geometry	Construction of a Circle, Line Segment, Perpendicular to a Given Line on a Point Lying on It, Perpendicular to a Given Line Through a Point Not on It, Perpendicular Bisector of a Line Segment, Constructing an Angle Equal to a Given Angle, Bisector of an Angle, Angles of Special Measures	<ul style="list-style-type: none"> • Maths Lab Activity (Drawing and trisecting an angle of 45°) <ul style="list-style-type: none"> — Application of Concepts, Critical Thinking, Creative Thinking, Analytical Thinking